

University of Idaho

College of Agricultural and Life Sciences

CALDWELL PROCEEDS AND CAFE EXPERIMENTAL FARM

Presentation to Idaho State Board of Land Commissioners September 20th, 2022



IdahoCAFE

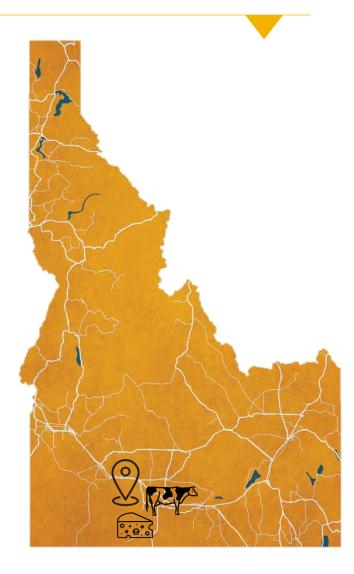
Center for Agriculture, Food and the Environment

A REGIONAL MODEL

Experimental Farm / Research Dairy Rupert (Minidoka County)

Discovery Center, classrooms, labs, faculty offices Crossroads I-84/Hwy93 (*Jerome County*)

Food processing pilot plant, workforce training/edu facility CSI Campus (*Twin Falls County*)



IDAHO CAFE



IdahoCAFE Center for Agriculture, Food and the Environment

- U of I has a need for an experimental farm to better serve Idaho agriculture
- Idaho dairy industry is #3 in the nation
- #1 agricultural commodity in Idaho
- With the close and sale of the Caldwell experimental farm, CALS only has one off-campus farm focused on large animals
- CAFE is critical to the continued delivery of the WIMU Veterinary Medicine program

RESEARCH AT CAFE

- Representative of the size of a modern dairy (cows and acres) to conduct experiments relevant for Idaho producers
- Located where the dairy industry thrives
- Integrates animal and agronomy research on the same site through forage production & nutrient management
- Develop waste management systems to create byproducts like fertilizers for crops



RESEARCH AT CAFE

- Develop strategies to mitigate greenhouse gas emissions from animals, housing areas, waste systems, and in-field applications, thereby advancing the dairy industry's nationwide net zero initiative
- Incorporate sensors and artificial intelligence to appropriately apply nutrients, including water, to crops and aid in animal well-being
- Support the economic viability of agriculture through sustainable crop rotational patterns focused on maintaining healthy soil and efficient use of water



Purchase and Sale Agreement

- UI proposes to sell approximately 640 acres of land in Rupert to the Endowment at the appraised value of \$6M
- Purchase price to come from funds in the Land Bank generated from 2021 sale of Endowment property in Canyon County
- This land will encompass the entirety of the Operating Dairy

Experimental Farm Operating Agreement

- Build-out of an Operating Dairy
- Operations
- Liquidation at end of agreement

Build-out of the Operating Dairy

- 1. Operating Agreement authorizes UI to construct Buildings/Improvements for the Operating Dairy
- 2. Land Bank Funds up to \$17.25M will be applied to Buildings/Improvements as follows:
 - a) <u>Site Preparation:</u> UI will use \$6M from sale of property to the Endowment plus additional internal UI funds to complete
 - b) <u>Endowment Buildings/Improvements</u> with Land Bank Funds:
 - Construction of the Milking Barn and Parlor by UI for the Endowment with construction funded using \$17.25M balance

Build-out of the Operating Dairy (cont'd)

- c. <u>UI Additional Buildings/Improvements (UI Funds)</u> Operating Agreement allows UI to build additional Buildings/Improvements on Endowment Lands after approval. There are two anticipated categories:
 - 1. <u>Operating Dairy</u>. Those buildings in addition to Endowment Buildings/Improvements necessary to complete an operational dairy
 - Additional Buildings/Improvements. UI may construct and fund additional Buildings / Improvements for use in conjunction with the Operating Dairy
 - Ul retains ownership of these buildings/fixtures

Operations Post Build-out

- Land Board designates University of Idaho as manager, occupant, and sole operator to develop and operate the experimental farm and research dairy in accordance with the Morrill Act
- UI will be responsible for all operations and maintenance of the Operating Dairy, including the land and all Buildings/Improvements

Liquidation of Dairy at the End of the Agreement

- 1. Endowment Land and Buildings/Improvements/Fixtures
 - a. Proceeds from sale, including appreciation in value, return to the endowment
- 2. UI Buildings/Improvements/Fixtures
 - a. Sold contemporaneously with the Endowment lands/ buildings/fixtures; proceeds are paid by the purchaser to UI
- 3. Format For Sale of the Combined Assets
 - a. Entire Operating Dairy (Endowment & UI assets) appraised at highest and best use;
 - Endowment Land with Buildings/Improvements sold at auction; all proceeds go to Endowment
 - c. UI Buildings/Improvements given separate value to determine purchase price for purchaser

Sources of Funds

Source:	Amount:		
State of Idaho	\$	10,000,000	
State of Idaho Land Board - Caldwell Proceeds		17,250,000	
Federal (ARS)		1,000,000	
Federal (ARS) - expected \$6mm rec'd in 2024		6,000,000	
CALS		2,290,000	
CALS - Phases 1 and 2 pledges		2,170,000	
Central		1,400,000	
Additional Fundraising Goal		3,202,007	
Land Board Purchasing Original Farm Land		6,000,000	
Total Sources of Funds:	\$	49,312,007	

Uses of Funds

Capital Expenditures				
Improvements - construction bid	\$	29,962,845		
Machinery & Equipment	т	1,999,102		
Buildings & Offices		11,762,590		
Rolling Stock		1,290,000		
Capital Expenditures:		, ,	\$	45,014,537
Initial Feed Purchases				
Forages		\$1,467,500		
Grain		345,970		
Initial Feed Purchases:				\$1,813,470
Original Purchase of Herd			-	
# Milking Cows		1,200		
% Dry Cows		15%		
# Dry Cows		180		
\$/Milking Cow		\$1,800		
\$/Dry Cow		\$1,800		
Milking Cow Purchases		\$2,160,000		
Dry Cow Purchases		324,000		
Original Herd Value:				\$2,484,000
Total Uses of Funds:			\$	49,312,007

Return on Investment

Initial Investment Amount - University-Controlled Funds	\$ (45,014,537)				
		Change in Dakt	A	Land	Return in
		Change in Debt	Ар	preciation	Year:
Cash Flow, Year 1:	\$ -	\$ (1,627,350)			\$(1,627,350)
Cash Flow, Year 2:	-	2,815,750			2,815,750
Cash Flow, Year 3:	2,301,282	452,306			2,753,588
Cash Flow, Year 4:	5,079,845	-			5,079,845
Cash Flow, Year 5:	5,226,585	-			5,226,585
Cash Flow, Year 6:	5,177,059	-			5,177,059
Cash Flow, Year 7:	4,735,601	-			4,735,601
Cash Flow, Year 8:	5,292,321	-			5,292,321
Balance Sheet Equity -					
End of Year 8 Less Cash, Plus A/D factor:			\$	1,600,620	\$46,629,459
Internal Rate of Return - Cash:	7.20%				

Return to Beneficiary

	In	vestment	CAFE		
NPV of 8 years, 4% discount rate	Fund			CAFE	
\$23.25M invested in endowment	\$	5,922,696	\$	-	
Additional grant revenues		-		11,631,960	
Research trial fee revenues		-		9,887,166	
Enrollment revenues		-		2,180,993	
Total Return per Year	\$	5,922,696	\$	23,700,119	

Return to Endowment

NPV of 8 years, 4% discount rate	CAFE
Land Appreciation (3% growth per year)	\$ 1,338,903
Total Return per Year	\$ 1,338,903

Total 8-year NPV CAFE

<u>Return</u>

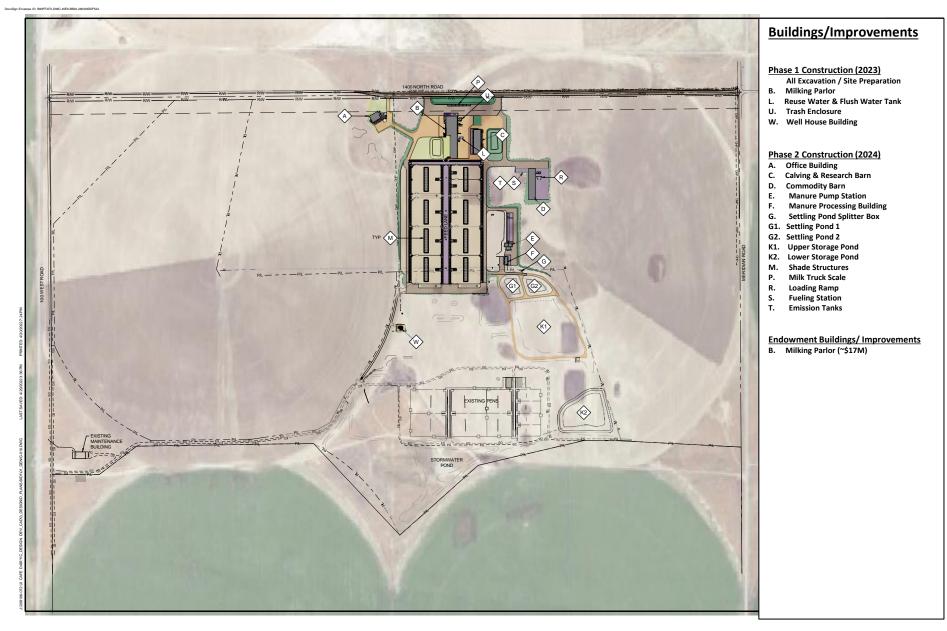
\$25,039,022

ANTICIPATED TIMELINE

- UI Regents Approval October 20, 2022
- 640 acres closing by December 20, 2022
- CAFE Phase 1 construction to bid in December 2022 January 2023
- Phase 1 construction completed by end of 2024
- Phase 2 construction completed by February 2026

QUESTIONS?

Exhibit B – CAFE Facilities



ARCHITECTURAL & ENGINEERING SERVICES

PROJECT BUDGET MODEL

Project: CAFE Research Dairy, Rupert, Idaho DPW 18-257

Scope of Work: Milking Parlor

UI Project Number: CP200017

Capital Construction Index: 674783

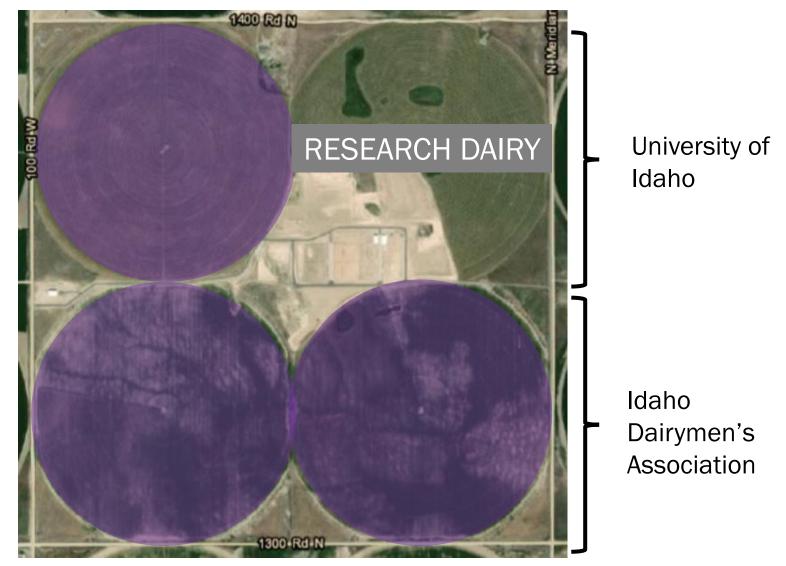
Date: 2 September, 2022

PROJECTED EXPENDITURES	Est. Expense Item
FEES:	
Consulting A/E Services	1,366,256
Reimbursables Allowance, A/E	69,000
Design Phase Consulting CM/GC Services	98,336
Reimbursables Allowance, CM/GC	10,800
Project Administrative Support	
Advertisement, A/E Services	74
Advertisement, CM/GC	76
RFQ, A/E	64
RFQ, CM/GC	64
DOPL Plan Check Fee	15,100
Detail Site Survey (Included in Keller design services contract)	0
Geotechnical Services (Included in land purchase agreement)	0
Construction Materials Testing (Allowance)	30,000
Testing and Balancing (Allowance)	20,000
Commissioning (Allowance)	25,000
Soils Testing/Compaction (Allowance)	40,000
Sub-Total Fees Category	1,674,770

CONSTRUCTION, CONTRACTOR:	
Milk Parlor, construction	11,895,673
Sub-Total	11,895,673
Construction Contingency @ 10%	1,189,567
DOPL Building Permit	37,750
Sub-Total Construction, Contractor Category	13,122,990
CONSTRUCTION OWNER:	
UI Facilities (Support)	
UI Shops Support (Submittal Review, Allowance)	5,000
Fixed, Installed Equipment	
Rotary Milker, DeLaval/Total Dairy Solutions	1,999,102
Main Electrical Service (Idaho Power, Allowance)	100,000
Telephone Infrastructure (Allowance)	80,000
Data Connection to the Site (Allowance)	80,000
Audio/Visual Systems (Allowance)	20,000
Computer Cabling/Electronic Switches/TIP Plates (Allowance)	25,000
Sub-Total Construction, Owner, Category	2,309,102

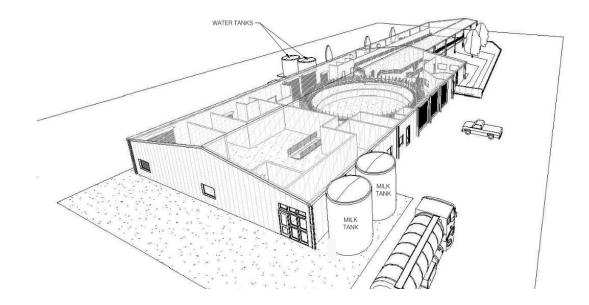
FURNISHINGS/FIXTURES:	
Lump Sum "Owner Cost & FFE" Estimate	
Fixed Equipment	
Furnishings	20,000
Artwork / Graphics	
Public Art Program (@ 1.5% of Const Cost)	
Interior Architectural ID and Wayfinding Signage	5,000
Exterior Architectural Identity Signage	7,500
Donor Recognition Signage	5,000
Non-Fixed Equipment	
Sub-Total Furnishing/Fixtures Category	37,500
PROJECT SUB-TOTALS:	
Sub-Total Project Category	17,144,362
PROJECT CONTINGENCY:	
Project Contingency Budgeted (2.5%)	428,609
CAPITAL PROJECT TOTAL, ROUNDED	\$ 17,572,971

EXPERIMENTAL FARM IN RUPERT



640 acres purchased in March 2019

STATE OF THE ART MILK BARN (PH 1)





STATE OF THE ART MILKING SYSTEM (PH 1)

